

P-loop

Ae-dNK MAAATGPERLGG--VAGKKPFTVVEGNIGSGKTTTELNNHPEKKERYCLLTERPVEKWRDCC
Ag-dNK -MPPIASPLIG--ASGKKPFTVVEGNIGSGKTTTELNNHPEKKERYCLLTERPVEKWRNCC
Dm-dNK MAEAAASCANKTKYAEQGTPPTVVEGNIGSGKTTTELNNHPEKKYKNDCLLTERPVEKWRNV
Bm-dNK -MS-ANNVKPFTVVEGNIGSGKTTTELNNHPEKKERYCLLTERPVEKWRDCL

Ae-dNK GGVNLLEELMYKEPHEWAMPFQIYVTLTMLNMHITYD**Q**DKSVKLME~~R~~GSARYCFVENMLIA
Ag-dNK GGVNLLEELMYKEPHEWAMPFQIYVTLTMLDMHIT**C**DKSVKLME~~R~~LSAR**N**CFVLSMIA
Dm-dNK **N**GVNLLEELMYKEPHEWAMPFQIYVTLTML**Q**SHAP**T**INK**K**DKSVKLME~~R~~FSARYCFVENM**R**
Bm-dNK **K**GCNLLEELMYKEPHEWAMPFQIYVTLTML**D**MI**R**RPAP**T**DKSVKLME~~R~~FSARYCFVENM**R**

Ae-dNK SGSLHQGMVNQLEWYEFI**H**ANIIQADLIVYLRTSPEVYERMKKRARSEESCVPLKYL
Ag-dNK SGSLHQGMVNQLEWY**D**FI**C**ONIIQADLIVYLRTSPEVYERMKKRARSEESCVPL**E**YL
Dm-dNK NGSLHQGMVNQLEWY**K**TE**E**ES**I**IIQADLIVYLRTSPEVYERMKKRARSEESCVPLKYL
Bm-dNK NN**L**HE**X**QFAVLD**W**TRFI**Q**HN**F**I**D**ADLIVYLRTSPEVYERMKKRARSEESCVPLSYL

Ae-dNK QELHELIENWLTHGTEPRV-APVLVLDADI.DLHN~~TS~~SEYKRSETSILK--PILIONTNQ
Ag-dNK KELHELIENWLTHGASPRP-APVLVLDIADLDLNTIGAEYKRSETSILK--PILIENTNQ
Dm-dNK QELHELIEDWLTHQRRPOS-CKVVLVLDADI.DLHNIGAEYKRSE~~TS~~**ED**--AIS-SNOOP
Bm-dNK EELHLRHEDWLINRIHAECAPVVLVLDADI.DLHN~~TS~~SEYKRSEHQIILRKAVN~~TS~~SPNK

nuclear import signal

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|--------|--|
| Ae-dNK | H-----PILASPSKRSRSETHF |
| Ag-dNK | H-----AIJTS P AKRAKIDF |
| Dm-dNK | S----- W LVSPSKRSRQVAR |
| Bm-dNK | MSPKKP I ST W PIKIKI W PHMRIL |

Fig. 1